

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 11169711 A

(43) Date of publication of application: 29.06.99

(51) Int. Cl

B01J 23/63

B01D 53/94

B01J 23/46

B01J 23/76

B01J 37/02

F01N 3/10

(21) Application number: 09338733

(22) Date of filing: 09.12.97

(71) Applicant: HONDA MOTOR CO LTD

(72) Inventor:
TERADA KAZUHIDE
OGAWA MASARU
NARUSHIGE TAKESHI
SUGIYAMA TOMOKI
SATO NAOHIRO

(54) COMPOSITE CATALYST FOR PURIFICATION OF EXHAUST GAS

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a composite catalyst for purification of exhaust gas exhibiting high NO_x purification capability and excellent durability.

SOLUTION: A composite catalyst 4 consists of the first catalyst part 5 with an Ir catalyst, and the second catalyst part 6 covering the first catalyst part 5 and having a perovskite type double oxide. The perovskite type double oxide mainly contributes to such an oxidation reaction as NO+O₂→NO₂ and on the other hand, the Ir catalyst is mainly a reducing agent for HC (hydrocarbons). It contributes to such a reduction reaction as NO₂+HC+O₂→N₂+CO₂+H₂O.

COPYRIGHT: (C)1999,JPO

